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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,104	12/30/1999	NAGESH VODRAHALLI	042390.P6785	5963

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WILLIAM W SCHAAL BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 90025

EXAMINER				
MITCHELL, JAMES M				
ART UNIT	PAPER NUMBER			

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Please find below and/or attached an Office communication concerning this application or proceeding.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)									
Examiner James M. Mitchell 2827	,	Application No.		Applicant(s)					
James M. Mitchell 2927	Office Action Summany		14		AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of minimple available under the provisions of 37 cFR 1.135(a). In one event, however, may a reply be timely filled ### the period for reply specified above is less than thely (30) days, a reply within the statulary minimum of theiry (30) days will be considered timely. ### the period for reply specified above is less than thely (30) days, a reply within the statulary minimum of theiry (30) days will be considered timely. ### the period for reply specified above is less than thely (30) days, a reply within the statulary minimum of theiry (30) days will be considered timely. ### the period for reply specified above is less than thely (30) days, a reply within the statulary minimum of theiry (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days, a reply within the statulary minimum of theiry (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days and be considered timely. #### The period for reply specified above is less than thely (30) days and be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period for reply specified above is less than thely (30) days will be considered timely. #### The period f	Office Action Summary								
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 (a)-(d) or (f). a) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Cortified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2 (a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 10 Notice of References Cited (PTO-892) 41 Intervew Summary (PTO-413) Paper No(s) 51 Notice of Informal Patent Application (PTO-152)	THE MAILING DATE OF THIS COMMUNICATION. Estantions of time may be a sicilable under the provision of 37 CFR 1.135(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the making date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the making date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONEO SIX CS, 1333). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earried patent term adjustment. See 37 CFR 1.704(b).								
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1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) ☐ Interview Summary (PTO-413) Paper No(s) 5) ☐ Notice of Informal Patent Application (PTO-152)									
			5) Notice of Informal P						

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Art Unit: 2827

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-18, 20, 22 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tao et al. (US 6,191,360) in combination with Fillion (US 6,306,680).

Tao disclose method for assembling an IC package comprising inherently applying an epoxy (39) that is inherently a conductive filler of carbon particles to a resin (via applicant's claims 14,16 & 18) to an integrated circuit, inherently placing a heat spreader, thermal element (37) adjacent to the epoxy and inherently attaching solder balls (not labeled) to a substrate ("PCB"; 30), mounting the IC circuit package (33) to said substrate further comprising molding an encapsulant (33b) onto the substrate and the IC, and curing the epoxy.

Tao does not appear to explicitly disclose curing epoxy with energy at a microwave frequency.

However, Fillion (Col. 4, Lines 62-66) utilizes a microwave frequency to cure epoxy via an inherent microwave generator selecting a frequency to cure epoxy without damaging IC (via operational device), wherein the microwave generator is inherently directed toward the epoxy (via epoxy is cured).

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It would have been obvious to one of ordinary skill in the art to utilize energy at a microwave frequency with the epoxy of Tao et al. in order to cure an encapsulant as taught by Fillion (Col. 4, Lines 62-66).

Claims 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tao and Fillion as applied to claim 6 and 9 in combination with AGEN (JP62-36091).

Neither Tao nor Fillion appear to disclose baking the substrate into/onto which the IC is to be mounted.

AGEN teaches baking the substrate into/onto, which the IC is to be mounted (Title).

It would have been obvious to one of ordinary skill in the art to bake the substrate of Tao into/onto which the IC is to be mounted, in order form metallization of the substrate ("PCB") as taught by AGEN (Title) and required by Tao (via electrical contact of balls, 33a to substrate, 30).

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (703) 305-0244. The examiner can normally be reached on M-F 10:30-8:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (703) 308-1233. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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